REPORT OF THE WHITE PINE BLISTER RUST WORK CARRIED ON IN THE TERRITORY UNDER THE SUPERVISION OF THE MISSOULA OFFICE FIELD SEASON 1918.

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By

Alfred H. W. Povah

and

George A. Root.

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The territory covered by the blister rust workers in the jurisdiction of the Missoula Office includes: the entire states of Montana and Idaho; all of Wyoming except Sweetwater County; the Black Hills Region of South Dakota; and Spokane and Pend Oreille Counties of the State of Washington.

Five field assistants, including A. H. W. Povah, who had general supervision over the field work in this territory from the beginning of the season to September 1, and George A. Root from September 1 to the present time, were employed during the season just closed to inspect currants, gooseberries, and five-needle pines for the blister rust fungus (Cronartium ribicola).

REPORT OF THE WORK LAST SUMMER AND THE
STATUS OF IN THE INVESTIGATIONS UNDER THE
SUPERVISION OF THE GLACIAL SECTION
FIRST FISCAL YEAR.

The territory covered by the Glacial part summer in the jurisdiction of the Glacial office includes: the entire counties of Jefferson and Island; all of Thurston, except Nisqually county; the Black Hills section of Lewis county and Ignomomo and Tenn Creeks counties of the State of Washington.

Five field assistants, including A. E. Jones, who had general supervision over the field work in this territory from the beginning of the season to September 1, and George A. Ladd from September 1 to the present time, were employed during the season just closed to inspect dolomite, concretes, and fire-clay plies for the Glacial Test Issues (Dreadnaught ribbons).

PERSONNEL OF BLISTER RUST WORKERS.

In charge: Dr. James R. Weir

In charge of field work:

Dr. Alfred H. W. Povah

Mr. George A. Root

Field Assistants:

Mr. Norman W. Scherer

Mr. Ferdinand S. Wolpert

Mr. Joseph Yencso

DIVISION OF THE DISTRICT AMONG FIELD MEN.

On view of the shortage of men available for the work, it was found necessary to reduce the number of men to the minimum. Consequently, each man had a larger territory than under normal conditions. The districts given the field men will be referred to as sub-districts, in order to conform to last year's report. Following is a list of the sub-districts covered by the field assistants, together with their headquarters:

PERSONNEL OF FIELDS WORK IN [illegible].

In charge: Dr. James A. Tait

In charge of field work:

Dr. Alfred E. F. Brown

Mr. George A. Moor

Field Assistants:

Mr. Norman F. Cooper

Mr. Theodore G. Wolpert

Mr. Joseph Pinto

SYNOPSIS OF THE DISTRICT WORK DONE BY.

In view of the shortness of time available for the work, it was found necessary to reduce the number of men to the minimum. Consequently, each man had a larger territory than under normal conditions. The districts given the field men will be referred to as sub-districts. In order to conform to last year's report. Following is a list of the sub-districts covered in the field assistantship, together with their headquarters:

Subdistrict One

This was partly covered by Field Assistant Joseph Yencso, whose headquarters was Great Falls, Montana, and by George A. Root, whose headquarters is Missoula, Montana. This subdistrict includes the entire state of Montana.

Subdistrict Two

Field Assistant Norman W. Scherer, whose headquarters were at Spokane, Washington, was in charge. This district includes the entire state of Idaho, and Pend Oreille and Spokane Counties in Washington. The latter county was covered by Assistant in Charge, George A. Root, who also covered a portion of Idaho in conjunction with Mr. Scherer. This state is still uncompleted.

Subdistrict Three

Field Assistant Ferdinand S. Wolpert, with headquarters at Sheridan, Wyoming, was in charge. This district includes the entire state of Wyoming, with the

Twelfth District

This was ably covered by Field Assistant George Jones, whose last quarter was spent mainly, however, with Mr. George A. Tait, whose headquarters is Boise. This subdistrict includes the entire state of Idaho.

Thirteenth District

Field Assistant Marion A. Palmer, whose headquarters were at Spokane, Washington, was in charge. This district includes the entire state of Idaho, and that portion of Washington lying east of the Cascades. The latter county was covered by Assistant in Charge, George A. Tait, who also covered a portion of Idaho in connection with Mr. Palmer. This state is still unoccupied.

Fourteenth District

Field Assistant Wm. H. Hickox, with headquarters at Medford, Oregon, was in charge. This district includes the entire state of Oregon, with the

exception of Sweetwater County; and the Black Hills Region of South Dakota. Mr. Wolpert was unable to complete the work in his district before leaving for Camp Dodge, Iowa on July 22. Dr. Weir also did some inspection work in this state, but at present it is far from being completely covered.

MANNER IN WHICH THE WORK WAS DONE.

The Month of May was spent by A.H.W. Povah with the assistance of Mr. Joseph Yencso, in sorting and filing by counties and towns the blue cards prepared by Mr. Stillinger in Oregon and Washington. These cards record the sales of currants, gooseberries, and five-needle pines in this district by the following firms:

Western Nurseries Covered by Blue Cards.

Albany Nurseries,	Albany, Oregon
Blackfoot Nurseries,	Blackfoot, Idaho
Capital City Nursery Co.,	Salem, Oregon
Columbia & Okanogan Nursery Co.,	Wenatchee, Washington
Idaho Nursery Co.,	Weiser, Idaho.
Lewiston-Clarkston Nursery,	Clarkston, Washington
Milton Nursery Co.,	Milton, Oregon
Oregon Nursery Co.,	Orenco, Oregon
Pacific Nursery Co.,	Portland, Oregon
Peterson & Sandahl,	Seattle, Washington
J.B.Pilkington,	Portland, Oregon

accepting of Deserters country; and the Green Mills Section of South Dakota. Mr. Hagert was unable to complete his work in his district before leaving for Camp Lewis, Nov. 20, 1917. Dr. Yale also did some inspecting work in this state, but is unable to be for from being completely covered.

Labor in Camp Lewis and the Army.

The work at Camp was begun by L.M.W. Lewis with the assistance of Mr. Joseph Ramsey, in sorting and filing by counties and towns the Slacker Cards prepared by Mr. Dillinger in Oregon and Washington. These cards became the basis of counties, precincts, and live-wires in some district of the following:

Western Districts Covered by Slacker Cards.

Albany, Oregon
Blackfoot, Idaho
Boise, Idaho
Bonner, Idaho
Bremerton, Washington
Centralia, Washington
Chehalis, Washington
Clatskanie, Oregon
Coos Bay, Oregon
Corvallis, Oregon
Dallas, Oregon
Dayton, Washington
Eugene, Oregon
Fairfield, Washington
Forest Grove, Oregon
Gardiner, Oregon
Gresham, Oregon
Hillsboro, Oregon
Hoquiam, Washington
Independence, Oregon
Jacksonville, Oregon
Kalama, Washington
Kelso, Washington
Lebanon, Oregon
Longview, Washington
Lowell, Oregon
Marshfield, Oregon
Medford, Oregon
Mill City, Oregon
Monmouth, Oregon
Montesano, Washington
Moscow, Idaho
Nampa, Idaho
Newberg, Oregon
Oakville, Washington
Oregon City, Oregon
Pendleton, Oregon
Pullman, Washington
Raymond, Washington
Redmond, Oregon
Roseburg, Oregon
Salem, Oregon
Silverton, Oregon
Stanfield, Oregon
Stayton, Oregon
Sumner, Washington
Tacoma, Washington
Tillamook, Oregon
Toledo, Washington
Tonasket, Washington
Vancouver, Washington
Wenatchee, Washington
Yakima, Washington
Yoncalla, Oregon

Western Nurseries Covered by Blue Cards (Cont'd.)

Rosecraft Nursery & Fruit Farm,	Sumner, Washington
Salem Nursery Co.,	Salem, Oregon
Toppenish Nursery Co.,	Toppenish, Washington
Washington Nursery Co.,	Toppenish, Washington
Yakima & Columbia Nursery Co.,	North Yakima, Washington
Yakima Valley Nursery Co.,	Toppenish, Washington

These blue cards were accompanied by lists showing records of invoices of the nursery stock in question. From these lists were taken the following data which gives the sources from which the Western nurseries obtained their stock sold in this region:

Origin of Stock Sold by Western Nurseries.

Albany Nurseries,	Albany, Oregon
Geo. L. Alleh,	Lebanon, Oregon
G.B.Benton,	Orenco, Oregon
Geo. Bernard,	Orleans, France
Breithaupt Nursery Co.,	Kennewick, Washington
F. H. Burglehause,	Sumner, Washington
C.C.Cantwell,	Hoover, Washington
The Capital Nurseries,	No. Topeka, Kansas
Carlton Nursery Col,	Carlton, Oregon
D.D.Carrier,	Clatskanie, Oregon
C.H.Chapman,	Salem, Oregon
Chico Nursery Co.,	Chico, California
Christopher Nursery,	Christopher, Washington
Clinton Falls Nursery Co.,	Owatonna, Minnesota
Geo. S. Cooper,	Salem, Oregon
G.E.Davis,	Sumner, Washington
Donald Bros. Co.,	Donald, Oregon

Western Washington Growers in Auto Stock (Cont'd.)

Tacoma Nursery Co.,	Tacoma, Washington
Union Nursery Co.,	Salem, Oregon
Superior Nursery Co.,	Lynnville, Washington
Wahington Nursery Co.,	Toppenish, Washington
Yakima & Columbia Nursery Co.,	North Yakima, Washington
Yakima Valley Nursery Co.,	Toppenish, Washington

These are those who are accompanied by lists showing people of involved in the treasury stock in question. From these lists were taken the following data which gives the sources from which the Pacific Northwest orchards might stock sold in this region.

Orchards in Stock and in Western Nurseries.

Albany Nurseries,	Albany, Oregon
Geo. W. Allen,	Yakima, Oregon
C.W. Beaton,	Yakima, Oregon
Geo. Barnard,	Orchard, Idaho
Brightmont Nursery Co.,	Bellingham, Washington
T. H. Burnham,	Yakima, Washington
C.C. Cantwell,	Rosevar, Washington
The Capital Nurseries,	Salem, Oregon
Carlton Nursery Co.,	Carlton, Oregon
C.W. Carver,	Clackamas, Oregon
C.W. Chapman,	Salem, Oregon
Chico Nursery Co.,	Chico, California
Chrisman, Inc.,	Christopher, Washington
Columbia Basin Nursery Co.,	Connell, Washington
Geo. E. Cooper,	Salem, Oregon
T. Davis,	Sumner, Washington
Donald Nurs. Co.,	Medford, Oregon

Origin of Stock Sold by Western Nurseries (Cont'd.)

Wm. Fells & Co.,	Hexam, England
G.B.Freeborough,	Montaville, Oregon
A.I.Gale,	Portland, Oregon
Ludwig Gelhan,	Salem, Oregon
H.W.Helzenreiter,	Warren, Oregon
Geo. Charlton & Sons,	Morpeth, England
D.Hill Nursery Co.,	Dundee, Illinois
C.M.Hooker & Sons,	Rochester, New York
J.P.Horanady,	Hillsboro, Oregon
T.S.Hubbard Co.	Fredonia, New York
Jackson & Perkins,	Newark, New Jersey
J.Jenkins & Son,	Sinonia, Ohio
N.C.Jorgeson,	Salem, Oregon
Lafayette Nursery Co.,	Lafayette, Oregon
C.F.Lansing,	Salem, Oregon
Vincent Lebreton,	Trelaze, France
Levavasseur & Fils,	Orleans, France
D.M.Lewis,	Portland, Oregon
Lincoln Fruit Farm,	Salem, Oregon
L.L.May & Co.,	St. Paul, Minnesota
Milton Nursery Co.,	Milton, Oregon
Mt. Arbor Nurseries,	Shenandoah, Iowa
Mt. Tabor Nursery,	Portland, Oregon
Gus Noren,	Chemawa, Oregon
Oregon Nursery Co.,	Orenco, Oregon
John Palmer & Son,	Annon, Scotland
G.F.Peterson,	Lents, Oregon
J.B.Pilkington,	Portland, Oregon
Portland Wholesale Nursery Co.,	Portland, Oregon
Quaker Nursery Co.,	Salem, Oregon
Joe Rich,	Orenco, Oregon
Rose View Nursery	Portland, Oregon
Russelville Nursery Co.,	Montaville, Oregon
H. W. Savage & Sons,	Salem, Oregon
W.N.Scarff,	New Carlisle, Ohio
Frank Schmitz,	St. Johns, Oregon
Pierre Sebire & Son,	Ussy, France
H. W. Settlemeier,	Tangent, Oregon
Shenandoah Nurseries,	Shenandoah, Iowa
T.V. Sluman Nurseries,	Portland, Oregon
Sluman & Harris,	Portland, Oregon
Spring Branch Water Co.,	Summer, Washington
Harlan Stansberry,	Portland, Oregon
H.L.Stevens,	Alsoe, Oregon
J. W. Stevens,	Kelso, Washington
Storrs & Harrison	Painesville, Ohio

Am. Jelly & Co.,	Baker, Oregon
C. Greenberg, Jr.,	Portland, Oregon
A.K. Gill,	Portland, Oregon
Lonely Dalton,	Salem, Oregon
H.V. Heisenrieder,	Albany, Oregon
Geo. Hamilton & Son,	Independence, Oregon
D. Hill Dairy Co.,	Chicago, Illinois
J.M. Foster & Son,	Gloucester, New York
A.A. Kerrnedy,	Milwaukee, Oregon
W.C. Hubbard Co.	Syracuse, New York
Jackson & Perkins,	Newark, New Jersey
J. Lehning & Son,	Cincinnati, Ohio
H.C. Jorgeson,	Salem, Oregon
Marjorie Mc Lary Co.,	Marysville, Oregon
C.C. Samain,	Salem, Oregon
Il Cent Laboratory,	Portland, Oregon
Leavenworth & Sile,	Triangle, Oregon
D.L. Lewis,	Triangle, Iowa
Lincoln Dairy Farm,	Portland, Oregon
L.L. May & Co.,	Salem, Oregon
Milton Dairy Co.,	St. Paul, Minnesota
Mr. Labor Services,	Dallas, Oregon
M. Sabor Dairy,	Monmouth, Iowa
Ma Moren,	Portland, Oregon
Oregon Dairy Co.,	Albany, Oregon
John Palmer & Son,	Oregon, Oregon
D.L. Patterson,	Oregon, Iowa
C.C. Philipton,	Salem, Oregon
Portland Producers Dairy Co.,	Portland, Oregon
Pacific Dairy Co.,	Portland, Oregon
Jon Pier,	Salem, Oregon
Lone Pine Dairy	Albany, Oregon
Rossville Dairy Co.,	Rossville, Oregon
R. T. Dairy & Co.,	Salem, Oregon
C. Scott,	Sun Dublin, Ohio
Jos. Sowden,	Ed. Cuba, Oregon
Fiora Dairy & Co.,	Niles, Ohio
C. T. Sterrenberg,	Portland, Oregon
Sunnyside Dairies,	Monmouth, Iowa
C.V. Jones Dairymen,	Portland, Oregon
Elman & Davis,	Portland, Oregon
Spring Green Dairy Co.,	Oregon, Wisconsin
Taylor Dairy,	Portland, Oregon
T.J. Stevens,	Salem, Oregon
E. K. Stevens,	Salem, Washington
Storrs & Dorrison	Mansfield, Ohio

Origin of Stock Sold By Western Nurseries (Cont'd.)

Sunnyside Nurseries,	Sunnyside, Washington
Sunrise Nurseries,	Portland, Oregon
H. E. Thompson,	Hillsboro, Oregon
J. E. Towle,	Shaw, Oregon
Walker Nursery,	Salem, Oregon
Washington Nursery Co.,	Toppenish, Washington
Geo. W. Weeks,	Salem, Oregon
W. H. Weeks,	Salem, Oregon
Weeks and Kleine,	Salem, Oregon
E. S. Welch,	Shenandoah, Iowa
Woodburn Nurseries,	Woodburn, Oregon
Woodlawn Nurseries,	Rochester, New York
Yakima Valley Nursery Co.,	Toppenish, Washington

PUBLICITY WORK

Interest in the blister rust work was aroused among the people in the various districts, by newspaper articles in the local papers. These were written by the men in their respective districts. Posters and literature were also exhibited at the Interstate Fair, in Spokane.

MONTANA

Inasmuch as this data gave us only the sales from Western nurseries and it was desired to have as complete a record as possible, we went to Mr. A. L. Strausz,

Cumberland Farmstead,	Hampton, Pennsylvania
Maple Hill Farms,	Portland, Oregon
S. H. Hoagland,	Allentown, Oregon
S. H. Cole,	Lake, Illinois
Dallas Dairies,	Lake, Illinois
Middlebury Dairy Co.,	Springfield, Pennsylvania
Geo. E. Weeks,	Salem, Oregon
E. F. Weeks,	Salem, Oregon
Fields and Flood,	Salem, Oregon
J. H. Davis,	Bloomfield, Iowa
Rockbrook Farm,	Kansas, Kansas
Knollwood Farmstead,	Pleasant, New York
Indian Valley, Inland Co.,	Cooperstown, Pennsylvania

Appendix Item

Interest in the Holstein cow has been so widespread among the people in the United States, by breeders working in the local country. Since were affected by the use in such increased productivity. Dairymen and Holsteinmen were also exploited in the Pennsylvania Dutch, in Canada.

Summary

Research of this kind has not only the means over Western Pennsylvania and it was analyzed to have an employee a record of morbidity, we have to D. e. A. Stevens.

Montana State Horticulturist, to find out whether he had the desired data. From his records it was found that during the five and one half years from November 1911 to April 1917, over 100,000 currants and almost 80,000 gooseberries had been shipped into the state of Montana. Because of the fact that all the conifers were listed together, it was impossible to trace the shipments of five-needle pines into the state.

Another difficulty was encountered in the fact that no record was given of the ultimate consignees in the case of car-load shipments and lots consigned to agents to distribute. In instances such as these wither the nurseries were asked to cooperate by furnishing the required data, or the information was sought from the forest pathologist in whose territory the nursery happened to be located.

All of the sales data obtained from the office of the State Horticulturist were recorded on cards which were then sorted and filed with the cards prepared by Mr. Stillinger. This gave a complete record of the state sales of currants and gooseberries, to which have been added lists of sales from some of the nurseries within the state. The following is believed to be a complete list

Another area of difficulty, to that not another as had the earlier date. Thus the records in one month had during the five and one half years since November 1941 to April 1947, over 100,000 overtaxes and almost 60,000 gasoline permits had been shipped into the state of Oregon. Moreover if the law had all the conditions were limited to gasoline, it was impossible to know the shipments of alcohol plant into the state.

Another difficulty was encountered in the last test to record was liver of the ultimate consignees in the case of car-load shipments and this continued to remain to plaguing. In instances was to know whether the permits were issued to originally in controlling the imported data, or the information was sought from the target publication of information concerning the amount to be imported.

All of the data which should be obtained from the office of the GTA's coordinator were received in some much air- time spared and time with the data required by the publication. This gave a complete record of the state sales of products and gasoline, to which have been added lists of sales from some of the nonparties within the state. The publication is believed to be a complete list

of the nurseries now operating in the state of Montana and their location:

Montana Nurseries.

Avoca Nursery Co.,	Butte, Mont.
Froid Nursery Co.,	Froid, Mont.
Hamilton Nursery Co.,	Hamilton, Mont.
Hare Nursery Co.,	Deerlodge, Mont.
Home Nursery Co.,	Billings, Mont.
Hopper's Greenhouse & Nursery,	Billings, Mont.
Interstate Nurseries,	Bridger, Mont.
Missoula Nursery Co.,	Butte, Mont.
Missoula Greenhouse & Nurs. Co.,	Missoula, Mont.
Page-Clark Seed & Nurs. Co.,	Billings, Mont.
State Nursery Co.,	Helena, Mont.
Yellowstone Nursery (branch)	Rockvale, Mont.
Yellowstone Nursery,	Silesia, Mont.

Status of Montana Nurseries.

The Missoula Greenhouse and Nursery Co., of Missoula, Mont. grows but little of its nursery stock. From the incomplete record of invoices available, it was found that currants and gooseberries had been purchased: in 1908 from Jackson & Perkins Co., of Newark, N. J., who, in turn, procured the stock from Charles Detriche, Sr., Angers, France; in 1909, from Charles Detriche, Sr., Angers, France direct; and in 1909, 1910, and 1911 from the Mount Arbor Nurseries, Shenandoah, Iowa.

of the industries now operating, in the order of Counties and their locations:

Wayne County.

Arco Foundry Co.,	Detroit, Det.
Arch Battery Co.,	Ypsil, Ypsil.
Building Tunnel Co.,	Hamilton, Ham.
Cars Foundry Co.,	Harrison, Ham.
Cars Foundry Co.,	Jefferson, Det.
Ingersoll's Production & Battery,	Melvin, Det.
Interstate Warehouse,	Brigham, Det.
Kinsmile Motor, Co.,	Detroit, Det.
Marcella Greenhouse & Vars. Co.,	Plymouth, Ply.
Pope-Oldsmobile Test & Vars. Co.,	Milford, Ham.
Sears Foundry Co.,	Salem, Det.
Yellowstone Foundry (Wagon)	Northville, Ham.
Yellowstone Foundry,	Plymouth, Ply.

Value of Source Direction.

The Detroit Freewheeling and Foundry Co., of Plymouth, Ind., made the initial of its company stock, from the Indianapolis source of 1 wheel specialists. It was long the Co. carried the production and been successful. In 1907 from Hudson & Terhune Co., of Detroit, E. L., Mich., in exchange the stock from Charles Daniels, Pres., Detroit, Mich. In 1909, from Charles Berlin, Pres., Angers, Pres. Direct; and in 1910, and 1911 from the Hunt after Directed, Detroit, Iowa.

The Missoula Nursery Co., of Butte, Mont. grows none of its stock. Invoices showed purchases of currants, and gooseberries as follows: in 1918 from the Freemont Office of the Mt. Arbor Nurseries, Shenandoah, Iowa; during the years 1915, 1916, and 1917 bush fruits were bought of the Missoula Greenhouse and Nursery Co.,of Missoula.

The State Nursery Co., Helena, Mont., has a large seed and greenhouse trade and also a fairly extensive nursery business. They, however, grow little except greenhouse stuff, buying their seeds and nursery stock. Mr. Mills informed us that he had purchased currants and gooseberries from the following sources: Jewell Nursery Co., Lake City, Minn., Missoula Greenhouse & Nursery Co., and Storrs & Harrison Co., Painesville, Ohio. In view of the fact that diseased pines were found in the last-mentioned nursery in 1910, 1911, and 1916, it was thou ht that currants and gooseberries shipped from this nursery at that time might have been infected. Consequently, bush fruits from the State Nursery Co., Helena, Mont. have been considered as dangerous.

The Avoca Nursery Co., of Butte, Mont. is affiliated with the Tidewater Investment Co., of the same

The Lincoln Nursery Co., of Lodi, Mont. grew most of its stock. Includes annual purchases of currants, and gooseberries as follows: In 1918 from the Kromont Office of the M. Lake Nursery, Kromont, Iowa; during the years 1918, 1919, and 1917 such fruits were bought of the Lincoln Greenhouse and Nursery Co., Lincoln.

The Ideal Nursery Co., Helena, Mont., had a large assorted greenhouse trade and also a fairly extensive nursery business. They, however, grew little except greenhouse stock, buying their seeds and nursery stock. Mr. Mills informed us that in the greenhouse currants and gooseberries from the following sources: Small Nursery Co., Lake City, Ill., Kansas Greenhouse & Nursery Co., and Storrs & Harrison Co., Painesville, Ohio. In view of the fact that diseased plants were found in the last-mentioned nursery in 1918, 1917 and 1916, it was thought the last currants and gooseberries shipped from this nursery at least that might have been infected. Consequently, such fruits from the Kansas Nursery Co., Helena, Mont. have been considered as suspicious.

The Ivoss Nursery Co., of Butte, Mont. is affiliated with the Riverbyr Investment Co., of the same

city, and is chiefly concerned with the planting up of their real estate deals. Mr. W. Mc C. White informed us that the nursery had neither bought nor sold any currants, gooseberries, or five-needle pines.

The Hamilton Nursery Co., Hamilton, Mont., does not grow any of its nursery stock. At the present time the owner is engaged in another business and their sales are few. According to Field Assistant Joseph Yencso, who visited the nursery this summer, they had no currants, gooseberries, or five-needle pines in the nursery.

The King - Thurman Nursery Co., Kalispell, Mont., operated from 1910-1916. They grew only a small part of their nursery stock. The rest they obtained from the following nurseries: Stark Brothers Nursery and Orchard Co., Louisiana, Mo.; Jewell Nursery Co., Lake City, Minn.; Mount Arbor Nurseries, Shenandoah, Iowa; and Oregon Nursery Co., Orenco, Ore.

The Hopper's Greenhouse and Nursery Co., Billings, Mont., does mostly a greenhouse business, i. e., cut flowers, bedding plants, and garden sets (tomatoes, cabbages, peppers, etc.). The few currants and gooseberries which they have sold were purchased from Shenandoah Nurseries, Shenandoah, Iowa.

The Stillwater Nurseries of Columbus, Mont., operated from 1909-1913, going out of business with the death of the manager, Mr. Chas. A. Teall, in 1913. The data on their sales were obtained from the lawyer who settled up the estate and he told us that he believed the nursery grew most of their stock. This, however, is probably not the case.

The Montana Nursery Co., Billings, Mont. was founded in 1906 and was one of the largest nurseries operating in the state, having made a $55,000 delivery in 1912. Incomplete invoice records show 15,000 currants and 16,000 gooseberries were purchased from the Mount Arbor Nurseries, Shenandoah, Iowa. The nursery went out of business in 1913.

The Billings Nursery Co.,of Billings, Mont. was started in 1913 by one of the men formerly connected with the Montana Nursery Co., (Mr. Tighe) and was operated until the death of Mr. Tighe in 1916. The business was not very extensive and they did not grow their own stock but obtained it from the Mount Arbor Nurseries, Shenandoah, Iowa and the Shenandoah Nurseries, Shenandoah, Iowa.

The Yellowstone Nursery at Silesia, Mont. was not visited by Mr. Povah (because of entering military service). Mr. Strausz, State Horticulturist, gave the following information: The nursery was founded in 1910 and at the present time is about to close out the business, having only fruit trees left in the nursery. It is believed that they handle

The Williamsburg Nurseries of Columbus, Mont., operated from 1907-1917, going out of business with the death of the founder, Mr. Cone, A. Tweit, in 1917. The data on their sales were obtained from the large file maintained by the estate and he said that he believed the nursery grew most of their stock. This, however, is probably not the case.

The Morton Nursery Co., Milford, Kan., was started in 1886 and was one of the largest nurseries operating in the state, having made a $15,000 delivery in 1916. Incomplete invoice records show 17,000 cherries and 16,100 gooseberries were purchased from the Grant Brown Nurseries, Shenandoah, Iowa. The nursery went out of business in 1919.

The Milford Nursery Co. of Milford, Kan., was started in 1916 by one of the same people connected with the Morton Nursery Co., (Mr. Milton) and was operated until the death of Mr. Triplett in 1919. The business was not very extensive and they did not grow their own stock but obtained it from the Mount Arbor Nurseries, Shenandoah, Iowa and the Shenandoah Nurseries, Shenandoah, Iowa.

The Fairmontana Nursery at Lincoln, Mont., was established by Mr. Frank Jackson (showing it entering military service). Mr. Stevens, State Horticulturist, gave the following information: The nursery was founded in 1910 and at the present time is about to close out the business, having only fruit trees left in the nursery. It is believed that they handle

very little home-grown stock, but the source is unknown, although it is practically certain Eastern stock was bought.

The Interstate Nursery, Bridger, Mont. was likewise not visited by Dr. Povah, but it is believed to be out of business. This will be verified, however, before the season of 1919.

The Home Nursery, Billings, Mont. was started in 1916. They do not grow much of their stock and have purchased currants and gooseberries from the Mount Arbor Nurseries, Shenandoah, Iowa and the Gurney Seed and Nursery Co., Yankton, S. Dakota.

The so-called Page Nursery Co., Billings, Mont. was started in 1910. They have grown practically nothing with the exception of shade trees. They have been merely agents for the following nurseries: from 1910-1916 for the Jewell Nursery Co., Lake City, Minn.; from 1917 to the spring of 1918 for the Gurney Seed and Nursery Co., Yankton, S. Dakota. Beginning this fall (1918) they are going to represent the Clinton Falls Nursery Co., Owatonna, Minn.

The Froid Nursery Co., Froid, Mont. was established in 1915 and is still doing a small business. It does not grow the currants and gooseberries which it sells but has bought them from the Rose Hill Nursery, Minneapolis, Minn.

very little free-gold ever, but its source is unknown, although it is probably certain lenses close to [illegible].

The Interstate Mining, Milling, Dev. Co. likewise did not yielded by 1. Lewis, but it is believed to be put at Maidens. This will be verified, however, before the coming of July.

Joe [illegible] Mining, Milling, Dev. was started in 1912. They do not grow much or their stock and have purchased [illegible] and quarterlies from the Great Lost Mineral, Dreamlands, Iowa and the Murray Gold and Mining Co., Lincoln, N. Mexico.

The Co-Ordinated Gold Mining Co., Milling, Mont. was started in 1910. They have grown [illegible] nothing with the exception of small [illegible]. They have been merely [illegible] for the following [illegible]: From July-1916 for the Jewel Mining Co., [illegible], Mont.; from 1917 to the spring of 1918 for the Murray Gold Mine Mining Co., Lincoln, N. Mexico. Beginning this [illegible] (1918) they are going to [illegible] the oil [illegible] Mining Co., [illegible], Ala.

The Gold Mining Co., Ltd., [illegible] established in 1910 and is still doing a small business. It does not [illegible] the [illegible] and [illegible] value it [illegible] [illegible] from the Rose Hill Mining, Minneapolis, Minn.

and the Clinton Falls Nursery Co., Owatonna, Minn.

Nurseries Having Sold Stock in Montana.

In addition to the state nurseries, as given in the last list, the following concerns have sold nursery stock in Montana during the past eight years:

Albany Nursery Co.,	Albany, Oregon.
Andorra Nurseries,	Chester Hill, Pennsylvania,
Arlington Nursery & Fruit Farm,	Arlington, Nebraska
Corbett Bennett,	Billings, Montana
Berry Nursery Co.,	Rochester, N. Y.
Billings Nursery Co.,	Billings, Montana
Biltmore Nursery Co.,	Biltmore, N. Carolina
Bitter Root Valley Irrig. Co.,	Florence, Montana
" " " " "	Victor, Montana
Benjamin F. Bonnewell,	Denver, Colorado
Brand Nursery Co.,	Faribault, Minnesota
Brown Bros.,	Rochester, New York
Capital City Nursery Co.,	Salem, Oregon
Chinook Nursery,	Chinook, Montana
Clinton Falls Nursery Co.,	Owatonna, Minnesota
Clinton Nurseries,	Clinton, Minnesota
Columbia & Okanogan Nurseries,	Wenatchee, Washington
Deephaven Nursery Co.,	Wayzata, Minnesota
Deerfield Nursery,	Medford, Minnesota
Des Moines Nursery Co.,	Des Moines, Iowa
Charles Detriche, Sr.,	Angers, France
A.H.Downing,	Hamilton, Montana
Henry A. Dreer, Inc.,	Philadelphia, Penn.
Dungan Watson Co.,	Freemont, Nebraska
Elliott Nursery Co.,	Pittsburg, Pennsylvania
Fairmont Nursery Co.,	Address unknown
Farmers Seed and Nursery Co.,	Faribault, Minnesota
Geo. W. Forner,	Payette, Idaho
Galbraith Nursery,	Fairbury, Nebraska
The Galloway Bros. Co.,	Waterloo, Iowa
Geneva Nurseries,	Geneva, New York

and the Illinois Seed Nursery Co., Centralia, Ill.

Nurseries which have been in business

In addition to the state nurseries, as given in the last list, the following nurseries have sold nursery stock in Illinois during the year ending June:

Albany Nursery Co.,	Albany, Oregon.
Andrews Nurseries,	Lancaster Mill, Pennsylvania,
Arlington Farm & Seed Co.,	Arlington, Virginia
Atlantic Nursery,	Atlantic, Georgia
Berry Nursery Co.,	Cornwall, N. Y.
Bluffton Nursery Co.,	Bluffton, Indiana
Bluffton Nursery Co.,	Bluffton, N. Carolina
Bliss Loop Valley Irrig. Co.,	Bliss, Idaho
" " " "	Victor, Montana
Benjamin T. Cornell,	Perry, California
Cloud Nursery Co.,	Cloquet, Minnesota
Crown Nursery,	Rochester, New York
Dental City Nursery Co.,	Salem, Oregon
Cannon Nursery,	Cannon, Delaware
Dillon Bros Nursery Co.,	Cuyahoga, Minnesota
Dillon Nurseries,	Dillon, Minnesota
Dillon & Conover Nursery,	Hartford, Connecticut
Independence Nursery Co.,	Independence, Kansas
Jennings Nursery,	Jennings, Louisiana
Jones Seed Nursery Co.,	Jones Union, Iowa
Jones Seed Nurseries, Inc.,	Algona, Iowa
J. H. Jones,	Tarkio, Missouri
Mary E. Green, Inc.,	Fairfield, Iowa.
Morgan Nursery Co.,	Morgan, Oregon
Milton Nursery Co.,	Milton, Pennsylvania
Milton Nursery Co.,	Milton Junction
Northern Seed and Nursery Co.,	Bellevue, Michigan
Pace, W. Owen,	Pawnee, Idaho
Pelham Nursery,	Pelham, Georgia
The Pomona Nurs. Co.,	Pomona, Iowa
Penny Nurseries,	Dunkirk, New York

Grand View Orchard Co.,	Hamilton, Montana
Gray Nursery Co.,	Hamilton, Montana
Gurney Seed & Nursery Co.,	Yankton, S. Dakota
Hankinson Nursery Co.,	Hankinson, N. Dakota
M. H. Harmon Co.,	Geneva, New York
D. Hill Nursery Co.,	Dundee, Illinois
Howard Lake & Victor Nurseries,	Howard Lake, Minnesota
Huntsville Nurs. Co.,	Huntsville, Alabama
Idaho State Nursery,	Nampa, Idaho
International Nurseries, -	Denver, Colorado
Interstate Nurseries,	Bridger, Montana
Jackson & Perkins Co.,	Newark, New Jersey
Jewell Nursery Co.,	Lake City, Minnesota
E. A. Johnson,	Hamilton, Montana
Jolly & Co.,	Conneautville, Pennsylvania
R. M. Kellogg Co.,	Three Rivers, Michigan
O. W. Kerr Co.,	Minneapolis, Minnesota
The Ben Kess Nursery Co.,	Hamilton, Montana
King-Thurman Nursery Co.,	Kalispell, Montana
Lewiston-Clarkston Nursery Co.,	Clarkston, Washington
L.L.May Co.,	St. Paul, Minnesota
Milton Nursery Co.,	Milton, Oregon
Missoula Orchard Co.,	Missoula, Montana
Montana Nursery Co.,	Billings, Montana
Wm. H. Moon Co.,	Morrisville, Pennsylvania
Mt. Arbor Nurseries,	Shenandoah, Iowa
Mt. Tabor Nursery,	Portland, Oregon
National Nursery,	Rochester, New York
Northern Colorado Nursery Co.,	Loveland, Colorado
Northern Nursery Co.,	Denver, Colorado
Northwest Nursery Co.,	Valley City, N. Dakota
Oregon Nursery Co.,	Orenco, Oregon
Owatonna Nursery Co.,	Owatonna, Minnesota
Pacific Nursery Co.,	Portland, Oregon
Perry Nursery Co.,	Rochester, New York
Peterson & Sandahl,	Seattle, Washington
Pioneer Nursery Co.,	Murray, Utah
Pioneer Nursery Co.,	New Ulm, Minnesota
Pleasant Valley Nursery Co.,	Winona, Minnesota
Portland Nursery Co.,	Portland, Oregon
M.O.Randall,	American Forks, Utah
H. C. Raymond,	Stevensville, Montana
Rhinelander Nursery Co.,	Rhinelander, Wisconsin
Riverside Nursery,	Spokane, Washington
Rosecroft Nursery & Fruit Farm,	Sumner, Washington

Grand View Orchard Co.,	Hamilton, Montana
Gray Nursery Co.,	Hamilton, Montana
Gurney Seed & Nursery Co.,	Yankton, S. Dakota
Hamilton Nursery Co.,	Hamilton, N. Dakota
H. G. Hanson Co.,	Geneva, New York
H. Hill Nursery Co.,	Dundee, Illinois
Howard Lake & Winter Vegetable,	Howard Lake, Minnesota
Huntsville Nurs. Co.,	Huntsville, Alabama
Idaho State Nursery,	Boise, Idaho
International Nurseries,	Denver, Colorado
Interstate Nurseries,	Hamilton, Montana
Jackson & Perkins Co.,	Newark, New Jersey
Jewell Nursery Co.,	Lake City, Minnesota
K. A. Johnson,	Hamilton, Montana
Kelly & Co.,	Connellsville, Pennsylvania
K. S. Kelloggg Co.,	Three Rivers, Michigan
L. V. Kerr Co.,	Minneapolis, Minnesota
The Lake View Nursery Co.,	Hamilton, Montana
Lang-Hansen Nursery Co.,	Hallsport, Montana
Lewiston-Clarkston Nursery Co.,	Clarkston, Washington
L. Leroy Co.,	St. Paul, Minnesota
Milton Nursery Co.,	Milton, Oregon
Missoula Orchard Co.,	Missoula, Montana
Montana Nursery Co.,	Billings, Montana
M. H. Mason Co.,	Morrisville, Pennsylvania
Mt. Airdor Nurseries,	Denmarkdale, Iowa
M. Tabor Nurseries,	Portland, Oregon
National Nursery,	Rochester, New York
Northern Colorado Nursery Co.,	Loveland, Colorado
Northern Nursery Co.,	Denver, Colorado
Northwest Nursery Co.,	Valley City, N. Dakota
Oregon Nursery Co.,	Oregon, Oregon
Owatonna Nursery Co.,	Owatonna, Minnesota
Pacific Nursery Co.,	Portland, Oregon
Perry Nursery Co.,	Rochester, New York
Peterson & Dahnke,	Seattle, Washington
Pioneer Nursery Co.,	Murray, Utah
Pioneer Nursery Co.,	New Ulm, Minnesota
Pleasant Valley Nursery Co.,	Winona, Minnesota
Portland Nursery Co.,	Portland, Oregon
R.G.Randall,	American Fork, Utah
R. G. Raymond,	Stevensville, Montana
Rhinelander Nursery Co.,	Rhinelander, Wisconsin
Riverside Nursery,	Spokane, Washington
Rosecroft Nursery & Fruit Farm,	Sumner, Washington

Rose Hill Nursery,	Minneapolis, Minnesota
Routledge Seed & Floral Co.,	Portland, Oregon
H. E. Rowley,	Lacon, Illinois
Russellville Nursery Co.,	Portland, Oregon
Salem Nursery Co.,	Salem, Oregon
John A. Salzer Seed Co.,	La Crosse, Wisconsin
Sherman Nursery Co.,	Charles City, Iowa
J.H.Skinner & Co.,	Topeka, Kansas
Smith Bros.,	Centerville, Utah
L.Z.Smith,	Mankato, Minnesota
W. & T. Smith Co.,	Geneva, New York
Sonderegger Nurs. & Seed House,	Beatrice, Nebraska
Spokane Nursery Co.,	Spokane, Washington
Stark Bros. Nurs. & Orch. Co.,	Louisiana, Missouri
Stillwater Nurseries,	Columbus, Montana
Storrs & Harrison Co.,	Painesville, Ohio
Strand's Nursery	Taylor Falls, Minnesota
Sunnyside Nursery Co.,	Sunnyside, Washington
Toppenish Nursery Co.,	Toppenish, Washington
W.I.Tuttle,	Fromberg, Montana
K. Van Bourgondieu & Son,	Hillegom, Holland
Van Holderbeke Nursery Co.,	Spokane, Washington
Vincennes Nursery Co.,	Vincennes, Indiana
Vineland Nursery,	Clarkston, Washington
Wapato Nursery Co.,	Wapato, Washington
J. W. Waters Nursery.	Twin Falls, Idaho
Washington Nursery Co.,	Toppenish, Washington
Wedge Nursery Co.,	Albert Lea, Minnesota
A. R. Weston Co.,	Bridgeman, Michigan
Whiting Nursery Co.,	Yankton, S. Dakota
Wild Rose Orchard Co.,	Spokane, Washington
O.H. Will & Co.,	Bismark, N. Dakota
Winfield Nursery Co.,	Winfield, Kansas
Henry Winter,	Helena, Montana
Woodburn Nursery Co.,	Woodburn, Oregon
Wragg Nursery Co.,	Des Moines, Iowa
Yakima & Columbia River Nurs. Co.,	North Yakima, Washington
Yakima Valley Nursery Co.,	Toppenish, Washington
Yellowstone Nursery,	Silesia, Montana
Yellowstone Nursery (branch),	Rockvale, Montana

In obtaining data on the sales of nursery stock by the nurseries within the state, the proprietor or manager

In ordering list of the sales of nursery stock

by the nurseries within the state, the proprietor or manager

was asked to cooperate by permitting us to go over his invoices and sales in order to record data on currants, gooseberries, and five-needle pines on the cards. In some cases, order books were available, but in others (the majority, in fact), it was necessary to go through the original orders. This slowed down the work considerably because of the poor chirography. Much credit must be given to the nurseries for their willingness to cooperate, for it would have been impossible to obtain complete data without their help.

Having thus completed the compilation and recording of data, there remained but the work of inspection, which Field Assistant Joseph Yencso began on June 19th. The account of this work will be found under the title "Resume of work in Subdistrict 1."

IDAHO AND SPOKANE AND PEND OREILLE COUNTIES OF WASHINGTON

I. Idaho.

The problem of obtaining the required sales data in Idaho was much more difficult than in the case of Montana. This was due to the fact that the records

was asked to cooperate by permitting us to go over his involves and notes in order to record data on diseases, precautions, and life-needle plans on the cards. In some cases, other books were available, but in others (the majority, in fact), it was necessary to go through the original orders. This slowed down the work considerably because of the poor chirography. Much credit must be given to the nurses for their willingness to cooperate, for it would have been impossible to obtain complete data without their help.

Having thus completed the compilation and recording of data, these remained but the task of tabulation, which with Agricultural Joseph Lemons taking on June 15th, the account of this work will be found under the title "Tabulation of Work in District I."

DATA AND METHODS USED IN COLLECTING DATA FROM DISTRICTS

I. Idaho.

The problem of obtaining the required sales data in Idaho was much more difficult than in the case of Montana. This was due to the fact that the records

of the State and Entomologist are too meagre to be of any use; to quote from a letter of Field Assistant, N. W. Scherer, "My search shows conclusively that there are no records in the office to show what each shipment, inspected by the deputy inspectors, contained. Hence it will be utterly impossible to trace Ribes or Pinus shipments into the state from this office." About the only things that Mr. Scherer was able to get from the above source were: (1) an incomplete record of the firms that have shipped stock into the state; (2) meagre data on the nurseries now operating within the state; (3) - perhaps the most important of all - a promise of reformation which a few quotation from Mr. Scherer's letter of June 19 will explain.

"Mr. Graham (State Entomologist) has agreed to the following suggestions made by me:

(1) That he will cooperate in every way possible.

(2) That quarantine No. 8 (Blister Rust) be amended.

(3) That card index records be kept of all shipments into the state.

(4) That men with better education be secured as deputy inspectors."

The following list is believed to include all the nurseries now operating in the state of Idaho, although

of the State and Entomologist are too meager to be of any use; to quote from a letter of field assistant, Mr. Scherer, "My search shows conclusively that there are no records in the office to show what each shipment, inspected by the deputy inspectors, contains. Hence it will be utterly impossible to trace lines or pine seedlings into the state from this office." Apart the only things that Mr. Scherer was able to get from the above source were: (1) an incomplete record of the firms that have shipped stock into the state; (2) meager data on the nurseries now operating within the state; (3) - perhaps the most important of all - a promise of reformation which a few quotation from Mr. Scherer's letter of June 12 will explain.

Mr. Hansen (State Entomologist) has agreed to the following suggestions made by me:

(1) That he will cooperate in every way possible.

(2) That quarantine No. 8 (Blister Rust) be amended.

(3) That some inter-records be kept of all shipments into the state.

(4) That men with better education be secured as deputy inspectors."

The following list is believed to include all the nurseries now operating in the state of Idaho, although

it has not been verified, as in the case of Montana, by visits to each nursery. Mr. Scherer in the letter quoted ab ve says: "There are practically no nurseries in the state that grow their own shrubberry or other nursery stock. Most of them are jobbers and distributors". The notes after the nurseries in the following list are those of Mr. Scherer obtained from Mr. Graham.

Nurseries Now Operating in Idaho

Blackfoot Nurseries,	Blackfoot, Idaho
Caldwell Nurseries, Ships in a large amount of stock.	Caldwell, Idaho
Anton Diedrichsen, Grows ornamental stock & is very successful with it.	Payette, Idaho
C. H. Goan, Business in a small way - just about to close out.	Grangeville, Idaho
Idaho Nursery Co., Jobbers - not licensed now. Ship in most of their stock from Washington & Oregon and distribute it.	Weiser, Idaho
Idaho State Nursery Co.,	Nampa, Idaho
Intermountain Nursery Co., Operating on a small scale - ship in about 50% of stock.	Payette, Idaho
Kimberly Nursery Co., Grow some stock.	Kimberly, Idaho

It has not been verified, as in the case of Preston, in
writing to each company. Mr. Scherer in his letter recent-
ly re says: "There are practically no companies in the
active list were their own shipping or other machinery
repair. Most of them are jobbers and distributors". The
notes after the companies in the following list are those
of Mr. Scherer obtained from Mr. Jordan.

Companies Now Operating in Idaho

Black's of Pocatello.	Pocatello, Idaho
Caldwell Enterprise. Engine in a large amount of stock.	Caldwell, Idaho
Anton Distributors. Large assortment stock & is very successful with it.	Portland, Idaho
C. E. Cone. Business is a small way - just about to close out.	Twin Falls, Idaho
Idaho Machinery Co. Schwab - not licensed now. Ship in more or their stock from Philadelphia & Pittsburgh.	Boise, Idaho
Idaho State Machinery Co.	Boise, Idaho
Intermountain Machinery Co. Operating on a small scale - ship in small lot of stock.	Pocatello, Idaho
Timberly Machinery Co. Order some stock.	Timberly, Idaho

Nurseries Now Operating in Idaho (Cont'd.)

D.H.Peck & Co., Ships in all his stock - just a jobber.	Twin Falls, Idaho
Rupert Nursery Co., Still operating on a small scale - grow some of their stock.	Rupert, Idaho.
Spokane Fruit Growers Ass'n. Jobbers - handle mostly fruit trees, but some shrubs.	Coeur d'Alene, Idaho
J. E. Steincur, Not licensed for least 3 years, may be out of business.	Murtaugh, Idaho
E. F. Stephbns, Dealer.	Nampa, Idaho
Twin Falls Prudential Nursery Co., - Not licensed now, perhaps they are out of business.	Twin Falls, Idaho

The following list, as complete as was possible to obtain, shows the firms that have shipped stock into Idaho during the years, 1907, 1912, 1913, 1914, 1915, 1916, 1917, 1918.

Nurseries and Agents Having Sold Stock in Idaho.

Albany Nurseries,	Albany, Oregon
Geo. F. Allen,	Filer, Idaho
D.L.Arnold,	Mowcow, Idaho
W.C.Austin,	Boise, Idaho
Ballygreen Nurseries,	Hanford, Washington

Nurseries not operating in Idaho (certified.)

Rodgers & Co., Ships in fall via truck - just a lobster.	Twin Falls, Idaho
Rogers Nursery Co., Still operating on a small scale - grow some of their stock.	Rogers, Idaho.
Spokane Fruit Growers Ass'n. Growers - handle mostly fruit trees, but some shrubs.	Post d'Alene, Idaho
A. G. Steinour, Not licensed for last 6 years, may be out of business.	Gooding, Idaho
L. A. Stephens, Seller.	Nampa, Idaho
Twin Falls Producers Nursery Co., - Not licensed now, perhaps they are out of business.	Twin Falls, Idaho

The following list, as complete as was possible to obtain, shows the firms that have employed stock into Idaho during the years, 1907, 1912, 1913, 1914, 1915, 1916, 1917, 1918.

Nurseries not shown further with stock in Idaho.

Albany Nurseries,	Albany, Oregon
Geo. F. Allen,	Boise, Idaho
D.L.Arnold,	Newton, Idaho
F.C.Austin,	Boise, Idaho
Bellingham Nurseries,	Bellingham, Washington

Nurseries and Agents Having Sold Stock in Idaho (Cont'd.)

Baltimore Nurseries,	Baltimore, N. Carolina
Claude L. Barnes	Emmett, Idaho
Bayhouse Floral Co.,	Boise, Idaho
L.O.Beery,	Portland, Oregon
C.L.Bidstrup,	Rupert, Idaho
Bingham County Nursery Co.,	Blackfoot, Idaho
Boise Floral Co.,	Boise, Idaho
Boise Nursery Co.,	Boise, Idaho
Boise Valley Nursery Co.,	Caldwell, Idaho
J.H.Bowers,	Plymouth, Idaho
Bradford & Hays,	Clarkston, Washington
A.H.Brainard,	Parma, Idaho
J. S. Bronson,	Parma, Idaho
Brown Bros.,	Rochester, New York
Isaac Buckley,	Oro Fino, Idaho
Buhl Hgts. Nursery & Orchard Co.,	Buhl, Idaho
Buhl Nursery Co.,	Buhl, Idaho
J.M.Campbell,	Boise, Idaho
Canyon County Nurseries,	Emmett, Idaho
Caynon Nursery Co.,	Caldwell, Idaho
Capital City Nursery Co.,	Salem, Oregon
Cassia County Pioneer Nursery,	Jackson, Idaho
Chas. B. Chaffee,	Clarkston, Washington
Chico Nursery Co.,	Chico, California
Civic Nursery Co.,	Tangent, Oregon
Columbia & Okanogan Nursery Co.,	Wenatchee, Washington
Crystal Nursery,	Payette, Idaho
H.H.Cummins,	Melba, Idaho
Davis & Avant,	Twin Falls, Idaho
Davis Bros.	Salmon, Idaho
Des Moines Nursery Co.,	Des Moines, Iowa
Dygert & Harder,	Twin Falls, Idaho
Emmett Nurseries,	Emmett, Idaho
Ferguson Fruit & Land Co.,	Twin Falls, Idaho
J. C. Finstead,	Priest River
James Fitzgeraldn	Filer, Idaho
Geo. W. Fonner,	Payette, Idaho
Fruitland Nursery,	Payette, Idaho
Galbraith Nursery Co.,	Fairbury, Nebraska
Gardner Nursery Co.,	Osage, Iowa
M. J. Goss & Co.,	Fruitland, Idaho
Graves & Hurrle,	New Plymouth, Idaho

Salisbury Nurseries,	Pottstown, Pa. Garrison
Sharp & Dawes	Emmett, Idaho
Stayton Floral Co.,	Boise, Idaho
L.J.Seavy,	Portland, Oregon
S.R.Sheafer,	Rupert, Idaho
Sheyenne County Nursery Co.,	Wheatland, Idaho
Spice Floral Co.,	Boise, Idaho
Spice Nursery Co.,	Nampa, Idaho
Spice Valley Nursery Co.,	Caldwell, Idaho
J.J.Stevens,	Plymouth, Idaho
Stewart & Hyde,	Glenfield, Washington
A.F.Swinhart,	Payette, Idaho
J. G. Thomson,	Payette, Idaho
Thorn Bros.,	Hoosick, New York
Isaac Tousley,	Twin Falls, Idaho
Trail Ridge Nursery & Greenhouse Co.,	Vail, Idaho
Vail Floral Co.,	Vail, Idaho
A.A.Vanderbilt,	Boise, Idaho
Ve [illegible] County Nurseries,	Emmett, Idaho
Vernon Nursery Co.,	Caldwell, Idaho
Vigilant Nursery Co.,	Boise, Oregon
Wabash County Nursery Co.,	Lewiston, Idaho
Chas. A. Ghatrom,	Glendale, Washington
Ghico Nursery Co.,	Chico, California
Olivia Nursery Co.,	Hammond, Oregon
Columbia & Clackamas Nursery Co.,	Hazelden, Washington
Crystal Nursery,	Payette, Idaho
R.A.Gwinnins,	Boise, Idaho
Davis & Grant,	Twin Falls, Idaho
Davis Bros.	Nampa, Idaho
Des Moines Nursery Co.,	Des Moines, Iowa
Dysart & Sons,	Twin Falls, Idaho
Emmett Nurseries,	Emmett, Idaho
Ferguson Fruit & Seed Co.,	Twin Falls, Idaho
G. W. Fleetwood,	Prairie River
James Fitzgerald,	Filer, Idaho
Geo. A. Foster,	Payette, Idaho
Fruitland Nursery,	Payette, Idaho
Galbreath Nursery Co.,	Fairfield, Idaho
Gardner Nursery Co.,	Osage, Iowa
E. G. Gose & Co.,	Hazelton, Idaho
Groves & Earle,	New Plymouth, Idaho

Nurseries and Agents Having Sold Stock in Idaho (Cont'd.)

C. H. Gravestock,	Hagerman, Idaho
A. D. Guild,	Post Falls, Idaho
Edwin B. Hanford,	Oaksdale, Washington
Harness, Dicks & Co.,	Salt Lake City, Utah
C. P. Hartley,	Emmett, Idaho
Chas. P. Hartley,	Caldwell, Idaho
F. W. Hawk,	Roswell, Idaho
Hawk's Nurseries,	Parma, Idaho
Haynes & Wonacott,	Milner, Idaho
Roy & J. W. Hedges,	Meridian, Idaho
Herrick,Seed Co.,	Rochester, New York.
Herriett & Salterback,	Twin Falls, Idaho
Home Nursery,	Clarkston, Washington
Home Nursery,	Moscow, Idaho
Huntsville Wholesale Nursery,	Huntsville, Alabama
B. F. Hurst,	Boise, Idaho
Intermountain Nursery Co.,	Brigham, City, Utah
Intermountain Nursery Co.,	Denver, Colorado
International Nursery Co.,	Denver, Colorado
Henry Jacobson,	Mountain Home, Idaho
Thomas Jaycox,	Twin Falls, Idaho
Jacob C. Jensen,	Brigham City, Utah
Jewell Nursery Co.,	Lake City, Minnesota
R. A. Jones,	Spokane, Washington
R. M. Kellogg Co.,	Three Rivers, Michigan
Tim Kelly,	Wapato, Washington
Lafayette Nursery Co.,	Lafayette, Oregon
D. S. Lake,	Shenandoah, Iowa
C. F. Lansing,	Marion, Oregon
C. F. Lansing,	Salem, Oregon
M. M. Lewis,	Coeur D'Alene, Idaho
Lewiston Valley Nursery Co.,	Lewiston, Idaho
J. F. Littooy,	Boise, Idaho
W. E. Loughrey,	Payette, Idaho
Lyman & Smith,	Rupert, Idaho
C. H. Martin,	Emmett, Idaho
Albert Mathis,	Payette, Idaho
L.L.May & Co.,	St. Paul, Minnesota
Midvale Nursery Co.,	Midvale, Idaho
Miller & Sons,	Nampa, Idaho
Milner Nursery Co.,	Milner, Idaho
Milton Nursery Co.,	Milton, Oregon
Mountain Gem Nursery Co.,	Parma, Idaho
Mountain Gem Nursery,	Sweet, Idaho

Nurseries and Agents having both Stock in Idaho Inspected.

C. M. Crawford,	Salmon, Idaho
A. D. Reid,	Post Falls, Idaho
Austin C. Hanford,	Caldwell, Canyon Co.
Kimberly, Shoshone & Co.,	Salt Lake City, Utah
C. P. Hartley,	Jerome, Idaho
Chas. T. Hartley,	Gooding, Idaho
E. H. Cook,	Caswell, Idaho
Lincoln Nurseries,	Ian a, Idaho
Harper & Vorhees,	Milner, Idaho
Fox & J. V. Lewis,	Twin Falls, Idaho
Berlin Seed Co.,	Connector, New York.
Hartford & Saltsbury,	Twin Falls, Idaho
Lore Nursery,	Washington, Washington
Home Nursery,	Nampa, Idaho
Hunterville Biological Nursery,	Huntsville, Alabama
S. C. Hurst,	Boise, Idaho
Intermountain Nursery Co.,	Salt Lake City, Utah
Intermountain Nursery Co.,	Denver, Colorado
International Nursery Co.,	Denver, Colorado
Henry Jacobson,	Emmett, Ada, Idaho
Thomas Jackson,	Twin Falls, Idaho
Jacob G. Jensen,	Salt Lake City, Utah
Jewell Nursery Co.,	Lake City, Minnesota
R. L. Jones,	Bellingham, Washington
R. C. Kellogg Co.,	Three Rivers, Michigan
Tim Kelly,	Spokane, Washington
Lafayette Nursery Co.,	Lafayette, Oregon
L. C. Lane,	Shenandoah, Iowa
O. P. Lansing,	Merion, Oregon
C. F. Lansing,	Salem, Oregon
E. M. Lewis,	Boise Valley, Idaho
Lewiston Valley Nursery Co.,	Lewiston, Idaho
C. V. Litton,	Boise, Idaho
W. H. Longmire,	Payette, Idaho
Lyons & Smith,	Lewiston, Idaho
C. L. Martin,	Emmett, Idaho
Albert Martin,	Payette, Idaho
McCoy & Co.,	St. Paul, Minnesota
Midwale Nursery Co.,	Milville, Idaho
Miller & Sons,	Payette, Idaho
Miller Nursery Co.,	Milner, Idaho
Milton Nursery Co.,	Milton, Oregon
Mountain View Nursery Co.,	Parma, Idaho
Mountain View Nursery,	Weiser, Idaho

Nurseries and Agents Having Sold Stock in Idaho (Cont'd.)

Muss & Hays,	Clarkston, Washington
Stuart Mutch,	Caldwell, Idaho
Nampa Nurseries,	Nampa, Idaho
Northern Nursery Co.,	Denver, Colorado
A. R. Noyer,	Payette, Idaho
D. L. O'Neal,	Blackfoot, Idaho
Oregon Nursery Co.,	Orenco, Oregon
Leigh Overman,	Spokane, Washington
Pacific Nursery Co.,	Portland, Oregon
Benjamin Paine,	Parma, Idaho
L. V. Patch,	Payette, Idaho
Payette Hgts. Nursery Co.,	Payette, Idaho
Payette Valley Fruit & Investment Co.,	Payette, Idaho
Payette Valley Nursery,	Payette, Idaho
Geo. W. R. Peaslee,	Clarkston, Washington
Pioneer Nursery Co.,	Salt Lake City, Utah
Pittenger Nursery Co.,	Parma, Idaho
Priest River Home Nursery,	Priest River, Idaho
Provo Nurseries,	Provo, Utah
D. S. Pruitt,	Gooding, Idaho
Murray O. Randolph	American Fork, Utah
Richland Nursery Co.,	Richland, Washington
Riverside Nursery Co.,	Spokane, Washington
Roswell Park Fruit Co.,	Parma, Idaho
Routledge Seed & Floral Co.,	Portland, Oregon
Wm. J. Russell,	Payette, Idaho
Russellville Nursery Co.,	Russellville, Oregon
John F. Ryan,	Roswell, Idaho
Salem Nursery Co.,	Salem, Oregon
Salt Lake Nursery Co.,	Salt Lake City, Utah
Jay W. Sanders,	Emmett, Idaho
Robt. Schleicher,	Lewiston, Idaho
Schroeder & Son Nursery Co.,	Boulder, Colorado
F. W. Settlemeier,	Woodburn, Oregon
Sherman Nursery Co.,	Charles City, Iowa
M. D. Smith,	Star, Idaho
Sonderegger Nursery & Seed Hse.,	Beatrice, Nebraska
Stark Bros. Nursery & Orch. Co.,	Louisiana, Missouri
B. W. Steinour,	Twin Falls, Idaho
Sunnyside Nursery Co.,	Sunnyside, Washington
Sunnyslope Nursery Co.,	Baker, Oregon
A. F. Talcott,	Caldwell, Idaho

Ross & Co.,	Blackfoot, Bingham Co
Sharpe Bros.,	Gooding, Idaho
Sharpe Nurseries,	Sharpe, Idaho
Southern Nursery Co.,	Denver, Colorado
A. L. Sayer,	Payette, Idaho
G. L. Stuart,	Blackfoot, Idaho
Oregon Nursery Co.,	Cornoo, Oregon
Lois Overman,	Spokane, Washington
Pacific Nursery Co.,	Portland, Oregon
Sequoia Seine,	Twin, Idaho
L. L. Stout,	Payette, Idaho
Payette Sta. Nursery Co.,	Payette, Idaho
Payette Valley Fruit & Im-	
provement Co.,	Payette, Idaho
Payette Valley Nursery,	Payette, Idaho
Geo. W. L. Ramsdee,	Bellevue, Washington
Pioneer Nursery Co.,	Salt Lake City, Utah
Pittsburgh Nursery Co.,	Parma, Idaho
Prairie Iron Pipe Nursery,	Twin Falls, Idaho
Provo Nurseries,	Provo, Utah
R. L. Pratt,	Boise, Idaho
Harry C. Rodgers,	Lewiston, Nez Perce
Rolland Nursery Co.,	Portland, Washington
Riverside Nursery Co.,	Spokane, Washington
Sorrell Park Farm Co.,	Parma, Idaho
Southern Seed & Plant Co.,	Portland, Oregon
Wm. C. Russell,	Payette, Idaho
Russellville Nursery Co.,	Russellville, Oregon
John E. Rowe,	Lewiston, Idaho
Salem Nursery Co.,	Salem, Oregon
Salt Lake Nursery Co.,	Salt Lake City, Utah
Jay F. Scofield,	Payette, Idaho
Scott, Schlosser,	Lewiston, Idaho
Seedless & Pom Nursery Co.,	Fresno, California
F. W. Settlemeier,	Portland, Oregon
Shenandoah Nursery Co.,	Shenandoah City, Iowa
W. G. Smith,	Boise, Idaho
Southwestern Nursery & Seed Co.,	Lawrence, Kansas
Stark Bro. Nursery & Orch. Co.,	Louisiana, Missouri
E. F. Stimson,	Twin Falls, Idaho
Sunnyside Nursery Co.,	Sunnyside, Washington
Superior Nursery Co.,	Salem, Oregon
E. E. Thomas,	Caldwell, Idaho

Nurseries and Agents Having Sold Stock in Idaho (Cont'd.)

Toppenish Nursery Co.,	Toppenish, Washington
Twin Falls Floral Co.,	Twin Falls, Idaho
Twin Falls Nursery,	Twin Falls, Idaho
Tyler Bros. Nursery Co.,	Hepburn, Idaho
Union Nurseries,	Union, Oregon
Utah Nursery Company,	Salt Lake City, Utah
Van Holderbeke Nursery,	Spokane, Washington
Vine Land Nurseries,	Clarkston, Washington
John Vruegenhill	Twin Falls, Idaho
Wallace Florist Co.,	Wallace, Idaho
Wasatch Nursery,	Salt Lake City, Utah
Washington Nursery Co.,	Toppenish, Washington
J. A. Waters,	Twin Falls, Idaho
J.B.Weaver,	Union, Oregon
D. S. Webb & Co.,	Coeur d'Alene, Idaho
Richard H. Webber,	The Dalles, Oregon
Weiser Valley Nursery Co., -	Weiser, Idaho
Wendell Nursery & Orchard Co.,	Weiser, Idaho
Westside Nursery Co.,	Twin Falls, Idaho
Western Nursery Co.,	Logan, Utah
F.L.White	Moscow, Idaho
John F. Whitlock,	Meridian, Idaho
D. L. Wild,	Jonesville, Idaho
Wild Rose Orchard Co.,	Spokane, Washington
R. B. Wilson,	Emmett, Idaho
Williams & Carnefix,	Payette, Idaho
E. L. Wonacott,	Kimberly, Idaho
Fred J. Woods,	Boise, Idaho
Yakima & Columbia River Nurs. Co.,	No. Yakima, Washington.
Yakima-Sunnyside Nurs. Co.,	Sunnyside, Washington
Yakima Valley Nursery Co.,	Toppenish, Washington.
W. A. Younie,	Blackfoot, Idaho.

Because of the fact that, even with the incomplete data at hand, there were more inspection cards that Field Assistant Norman W. Scherer could cover in a single field season, it was determined to inspect what stock we had listed. This included sales from the Western nurseries (on blue

Topsfield Nursery Co.,	Topsfield, Washington
Twin Falls Floral Co.,	Twin Falls, Idaho
Twin Falls Nursery,	Twin Falls, Idaho
Tyler Bros. Nursery Co.,	Nampa, Idaho
Union Nurseries,	Union, Oregon
Utah Nursery Company,	Salt Lake City, Utah
Van Buiderbelle Nursery,	Bowman, Washington
Vine Land Nurseries,	Chimakum, Washington
John Vroegindij	Twin Falls, Idaho
Wallace Florist Co.,	Wallace, Idaho
Wasatch Nursery,	Salt Lake City, Utah
Washington Nursery Co.,	Topsfield, Washington
G. A. Weiss,	Twin Falls, Idaho
J. J. Weaver,	Union, Oregon
E. H. Webb & Co.,	Coeur d'Alene, Idaho
Theodore H. Welcor,	The Dalles, Oregon
Western Valley Nursery Co., -	Nelson, Idaho
Wheeler Nursery & Orchard Co.,	Weiser, Idaho
Whitlock Nursery Co.,	Twin Falls, Idaho
Western Nursery Co.,	Logan, Utah
F. Wolfe	Moscow, Idaho
John F. Wolfcale,	Lewiston, Idaho
G. W. Will,	Lewisville, Idaho
Wild Rose Orchard Co.,	Spokane, Washington
E. E. Wilson,	Pewett, Idaho
Williams & Cornell,	Pocatello, Idaho
W. L. Woodcock,	Kennewick, Washington
Fred L. Wooldridge,	Boise, Idaho
Yakima & Columbia River Nurs. Co.,	
Yakima-Wenatchee Nurs. Co.,	Co. Yakima, Washington,
Yakima Valley Nursery Co.,	Sunnyside, Washington
F. A. Young,	Topsfield, Washington,
	Blackfoot, Idaho.

Because of the fact that, even with the incomplete data at hand, there were many suspicious cases from field salesmen, Norman E. Roberson co.ld cover in a single field season, it was determined to increase what stock we had filled. This included sales from the western nurseries (in blue

cards) included in the first list of this report and sales made by Montana nurseries in Idaho. Mr. Scherer began inspecting in Pend Oreille County, Washington, about the third week in June. After completing this county he went into Boundary County, Idaho, working south, thence eventually completing Bonner and Kootenai Counties. After the departure of Mr. Scherer at this time (September 19) one of the writers, Mr. George A. Root, continued with the work in Idaho and completed Shoshone County.

II. Spokane and Pend Oreille Counties, Washington.

The sales of Pine and Ribes in this section of Subdistrict II are mostly from Western nurseries. A personal interview with Mr. M.L. Dean, Chief of the Division of Horticulture at Olympia, has not been possible, but a letter requesting nursery information was forwarded, and cooperation in this work was kindly offered.

The following list is believed to include the nurseries and agents operating in this district:

A.L.Burt, Small nursery. Ships in stock when needed.	Spokane, Wash.
Irmus and Klaffenbach Small nursery. Ships in good deal of stock.	" "

omaha) included in the first list of this report and sales made by nurseries in Idaho. Mr. Scherer began inspecting in Fond Orville County, Washington, about the third week in June. After completing this county he went into Kootenay County, Idaho, working south, thence eventually completing Kamer and Lewiston counties. After the departure of Mr. Scherer at this time (September 19) one of the writers, Mr. George A. Root, continued with the work in Idaho and completed Shoshone County.

II. Incomes and Total Orchard Acreage.

Washington.

The sales or Fine Sun Lines in this section of Subdistrict II are mostly from Eastern nurseries. A personal interview with Mr. Max. Sean, Chief of the Division of Horticulture at Olympia, has not been possible, but a letter requesting nursery information was forwarded, and cooperation in this work was kindly offered.

The following list is believed to include the nurseries and agents operating in this district:

A.I.Hart, Spokane, Wash.
Small nursery. Ships in stock when needed.
Inman and Jackson
Small nursery. Ships in good deal of stock.

A/A. Kelley, Nurseryman, ?	Spokane, Wash.
H. E. Krause, Two small nurseries. Ships in stock.	" "
Municipal Nursery (J. W. Duncan). Owned by City of Spokane. Grows stock for city parks.	" "
Overman Nursery Co., Very small nursery. Big Business. Ships in stock.	" "
Riverside Nursery (R. A. Jones). Grows a great deal of stock	Hillyard, Wash.
Spokane Nursery Co., Grows stock but ships in a great deal.	Spokane, Wash.
Sylvan Home Nursery (C. E. Straight). Out of business. Some stock still remaining.	Hillyard, Wash.
Wild Rose Nursery, Out of business.	Spokane, Wash.

Agents:

E. C. Balzer	Spokane, Wash.
Sheldon B. Coon	" "
A. Donart, Florist,	" "
J. Driscoll,	" "
Glenrose Greenhouses	" "
Hoyt Bros., Florists,	" "
Reimer's Floral Art Shop	" "
Spokane Greenhouse Co.,	" "
Spokane Seed Co.,	" "

The following is a list of nurseries having sold stock in this district from 1907 to 1918.

Albany Nursery Co.,	Albany, Oregon
Bobbink and Atkins Co.,	Rutherford, N.J.
Brown Bros.,	Vancouver, B. C.
J.J.Butser,	Portland, Oregon
Fruit Farm Co.,	Sumner, Washington
Garden Nursery Co.,	Osage, Iowa.
Green Bros. Nursery Co.,	Rochester, N. Y.
H.M. Hardyzer,	Boskoop, Holland
D. Hill Nursery Co.,	Dundee, Ill.

A.A. Kelly, Nurseryman, Spokane, Wash.
?

H. H. Kiesse, " "
Two small nurseries. Ships in stock.

Municipal Nursery (G. W. Jensen), " "
Owned by City of Spokane. Grows stock for city parks.

Overman Nursery Co., " "
Very small nursery. Big business. Ships in stock.

Riverside Nursery (C. A. Jones), Milwaukee, Wash.
Grows a great deal of stock

Spokane Nursery Co., Spokane, Wash.
Grows stock but ships in a great deal.

Sylvan Lane Nursery (C. M. Straight), Milwaukee, Wash.
Cut of business. Some stock still remaining.

Vail Tree Nursery, Spokane, Wash.
Out of business.

Agents:

E. G. Baker Spokane, Wash.
Shelton G. Doon " "
A. Demmt, Florist, " "
J. Driscoll, " "
Glenrose Greenhouses " "
Hoyt Bros., Florists, " "
Leimer's Floral Art Shop " "
Spokane Greenhouses Co., " "
Spokane Seed Co., " "

The following is a list of nurseries having sold stock in this district from 1907 to 1916.

Albany Nursery Co., Albany, Oregon
Bobbitt and Atkins Co., Rutherford, N.J.
Brown Bros., Vancouver, B. C.
J. J. Butler, Portland, Oregon
Fruit Farm Co., Denver, Colorado
Garden Nursery Co., Osage, Iowa.
Green Bros. Nursery Co., Rochester, N. Y.
H.E. Hardyman, Moorcroft, Illinois
D. Hill Nursery Co., Dundee, Ill.

Kelway and Son,	Longport, England
Lake City Nursery Co.,	Lake City, Minn.
Milton Nursery Co.,	Milton, Oregon
Oregon Nursery Co.,	Orenco, Oregon
Ornamental and Fruit Nursery Co.,	Wapato, Wash.
J. B. Pilkington,	Portland, Oregon
Rosalia Nursery Co.,	Summer, Oregon
Rosecraft Nursery and Fruit Co.,	Portland, Oregon
Russelville Nursery Co.,	Russelville, Oregon
Washington Nursery Co.,	Toppenish, Wash.

Owing to the large number of cards for Spokane County, it was deemed advisable to inspect the most important ones, including those representing pine shipments. This was done in order that inspection might be made in other important districts.

WYOMING.

Conditions for securing data in Wyoming were found by Field Assistant Ferdinand S. Wolpert to be even worse than in Idaho. Moreover, there is no Blister Rust Quarantine. The following quotation from a letter of Mr. Wolpert's written June 10th, will explain the situation: "The state records are very meagre, giving me no available material other than the list of nurseries which are doing or have done business in the state. The board (State Board of Horticulture) here is in the hands of

Kelsey and Son,	Longport, New Jersey
Lake City Nursery Co.,	Lake City, Minn.
Milton Nursery Co.,	Milton, Oregon
Oregon Nursery Co.,	Oregon, Oregon
Ornamental and Fruit Nursery Co.,	Toledo, Wash.
O. B. Pilkington,	Portland, Oregon
Rosalia Nursery Co.,	Rosalia, Wash.
Rosewood Nursery and Fruit Co.,	Portland, Oregon
Sawsellville Nursery Co.,	Sawsellville, Oregon
Washington Nursery Co.,	Toppenish, Wash.

Owing to the large number of cards, or persons concerned, it was deemed advisable to interpret the most important one, including those representing pine shipments. This was done in order that inspection might be made in other important district.

CONCLUSIONS.

Conditions for accurate data in working were found by Miss Assistant Inspector R. Colpert to be even worse than in Idaho. Moreover, there is no Milster Law quarantine. The following quotation from a letter of Mr. Colpert's written June 10th, will explain the situation:

"The state records are very meagre, giving me no available material other than the list of nurseries which are doing or have done business in the state. The board (State Board of Horticulture) here is in the hands of

Dr. Nelson completely, and, as he told me, he has time for it only when he forces himself to take time. As a result, the available data is practically nothing." At the time of writing this report a list of nurseries operating in the state of Wyoming was not available. A reply to a letter to Dr. Nelson of the State Board of Agriculture asking for this list, is expected at any time. All inspection cards on hand at the present time represent sales from outside nurseries.

In the hope of getting some data on the stock shipped into Wyoming, Mr. Wolpert wrote to the nurseries that had been shipping stock in and asked them to cooperate by sending him lists of all their Wyoming sales of currants, gooseberries and five-needle pines for the past seven years. It was as surprising as it was gratifying to note how many of the nurseries sent back the desired data.

The following list shows the nurseries that have done business in Wyoming and was communicated to Mr. Wolpert by Dr. Aven Nelson, Secretary of the Wyoming State Board of Horticulture.

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The following list shows the nurseries that have done business in Wyoming and was communicated to Mr. Wolpert by Mr. Ave Nelson, Secretary of the Wyoming State Board of Horticulture.

Nurseries Having Sold Stock in Wyoming.

D. M. Andrews,	Boulder, Colorado
Barteldes Seed Co.,	Denver, Colorado
Bismark Nursery Co.,	Bismark, N. Dakota
Brand Nursery Co.,	Faribault, Minnesota
H. W. Burkbee,	Rockford, Illinois
Colorado Nursery Co.,	Loveland, Colorado
Crete Nurseries,	Crete, Nebraska
International Nurseries,	Denver, Colorado
Denver Nursery Co.,	Denver, Colorado
Fairbury Nurseries,	Fairbury, Nebraska
Gardner Nursery Co.,	Osage, Iowa
Gurney Seed & Nursery Co.,	Yankton, S. Dakota
Harrison Nursery Co.,	York, Nebraska
D. Hill Nursery Co.,	Dundee, Illinois
Humphrey Nurseries,	Humphrey, Nebraska
Jewell Nursery Co.,	Lake City, Minnesota
R. M. Kellogg Co.,	Three Rivers, Michigan
Marshall Brothers,	Arlington, Nebraska
L.L.May & Co.,	St. Paul, Minnesota
Northern Nursery Co.,	Denver, Colorado
Northern Colorado Nursery,	Loveland, Colorado
Plumfield Nurseries,	Fremont, Nebraska
Porter-Walton Co.,	Salt Lake City, Utah
Shenandoah Nurseries,	Shenandoah, Iowa
Sherman Nursery Co.,	Charles City, Iowa
Sondregger Nursery & Seed Hse.,	Beatrice, Nebraska
Southerland Gardens,	Boulder, Colorado
Stark Bros. Nursery Co.,	Louisiana, Missouri
State Nursery Co.,	Helena, Montana
Wagner Park Nursery Co.,	Sidney, Ohio
Yakima & Columbia R. Nursery Co.,	North Yakima, Washington

RESUME OF WORK IN SUBDISTRICT I.

Field Assistant Joseph Yencso began the work of inspection in this district in Montana on June 10th, and continued until September 30th, at which time he was called

Nurseries having full stock in readiness.

B. A. Andrews,	Boulder, Colorado
Brightlake Seed Co.,	Denver, Colorado
Blanck Nursery Co.,	Blanck, N. Dakota
Brand Nursery Co.,	Fairbault, Minnesota
H. V. Burkhe,	Rockford, Illinois
Colorado Nursery Co.,	Loveland, Colorado
Crete Nurseries,	Crete, Nebraska
International Nurseries,	Denver, Colorado
Denver Nursery Co.,	Denver, Colorado
Fairbury Nurseries,	Fairbury, Nebraska
Gardner Nursery Co.,	Ames, Iowa
Harry Seed & Nursery Co.,	Hanover, N. Dakota
Harrison Nursery Co.,	York, Nebraska
H. Hill Nursery Co.,	Dundee, Illinois
Humphrey Nurseries,	Humphrey, Nebraska
Jewell Nursery Co.,	Lake City, Minnesota
K. M. Lolling Co.,	Three Rivers, Michigan
Kirkwall Brothers,	Arlington, Nebraska
L. Lilley & Co.,	St. Paul, Minnesota
Northern Nursery Co.,	Denver, Colorado
Northern Colorado Nursery,	Loveland, Colorado
Plainfield Nurseries,	Fremont, Nebraska
Porter-Walton Co.,	Salt Lake City, Utah
Quackenbush Nurseries,	Shenandoah, Iowa
Shenandoah Nursery Co.,	Marion City, Iowa
Southern Nursery & Seed Co.,	Hastings, Nebraska
Southwestern Nurseries,	Boulder, Colorado
Stark Bro. Nursery Co.,	Louisiana, Missouri
State Nursery Co.,	Helena, Montana
Wagner Park Nursery Co.,	Sidney, Ohio
Yakima & Columbia R. Nursery Co.,	North Yakima, Washington

REPORT OF WORK IN MONTGOMERY I.

Field Assistant Joseph Jensen began the work of inspection in this district in Montana on June 10th, and continued until September 20th, at which time he was called

into military service. The writer, Mr. George A. Root, continued the field work left by Mr. Yencso, starting in on Lincoln County, but owing to illness was only able to devote three days to the work, - October 17, 18, and 19.

A total of 1,357 inspections have been made. These are divided among the following counties: Missoula, 421; Mineral, 48; Ravalli, 143; Sanders, 386; Flathead, 330; and Lincoln, 29. The following number of shipments were unable to be located in each county: Missoula, 131; Mineral, 5; Ravalli, 63; Sanders, 13; Flathead, 354; and Lincoln, 4, making a total of 580. Adding to this the number of actual inspections makes a total of 1, 937 inspection cards accounted for in this district.

In Missoula County inspections were made in 21 towns and villages, more than half of the inspections being confined to Missoula and Ronan; in Mineral in 9 towns, the number in each town being nearly equal; in Ravalli in 9 towns, one-third of the inspections being made in the towns of Hamilton and Stevensville; In Sanders in 19 towns, one-third being made in the towns of Camas and Dixon; in Flathead inspections were made in 22 towns, one-half being made in the towns of Kalispell and Polson; and in Lincoln County in 3 towns. The latter county is still incomplete.

into military service. The writer, Dr. George A. Foot, continued the field work left by Mr. Lemoso, starting in of Lincoln County, but owing to illness was only able to devote three days to the work. - October IV, 1E, and 1D.

A total of 1,227 inspections have been made. These are divided among the following counties: Kittanie, 425; Mineral, 4C; Ravalli, 1A3; Sanders, 0A0; Flathead, 0C0; and Lincoln, 3D. The following number of sanitaria were visited to be located in each county: Kittanie, 1A1; Mineral, 0; Ravalli, 0B; Sanders, 1D; Flathead, 0B0; and Lincoln, 4, making a total of 3B0. Adding to this the number of actual inspections makes a total of 1,3C7 inspection cards accounted for in this district.

In Kittanie County 1 prosecution was made in 27 towns and villages, more than half of the inspections being performed on Saturdays and Sundays; in Mineral in 3 towns, the number in each town being nearly equal; in Ravalli in 9 towns, one-third of the inspections being made in the towns of Hamilton and Stevensville; in Sanders in 1D towns, one-third being made in the towns of Camas and Plains; in Flathead most inspections were made in 2C towns, one-half being made in the towns of Kalispell and Polson; and in Lincoln County in 3 towns. The latter county is still incomplete.

RESUME OF WORK IN SUBDISTRICT II.

I. Idaho.

Field Assistant Norman W. Scherer began work at Boundary County, completing that county and also Bonner and Kootenai Counties. A few inspections of pine and Ribes were also made in Latah County. The writer, as previously mentioned, completed Shoshone County, starting work there September 24th.

A total of 821 inspections have been made, divided among the following counties: Boundary, 116; Bonner, 283; Kootenai, 293; Shoshone, 104; and Latah, 25. The following number of shipments were unable to be located in each case: Kootenai, 50; Boundary, 8; Bonner, 11; and Shoshone, 17. This makes a total of 76 unlocated cards, which, added to the list of inspected ones, brings the total to 897 cards accounted for in Idaho.

In Boundary County inspections were made in 11 towns or villages, more than one-half being made in Bonner's Ferry, and vicinity; in Bonner County in 30 localities, the number in each place being nearly equal; In Kootenai County in 32 localities, a little more than one-third of the inspections being made in Coeur d'Alene and vicinity; in

RESUME OF WORK IN INSPECTION II.

I. Idaho.

Field Assistant Norman A. Lobsiger began work at Boundary County, completing that county and also Bonner and Kootenai counties. A few inspections of pipe and tubes were also made in Latah County. The writer, as previously mentioned, completed Shoshone County, starting work there September 22nd.

A total of 821 inspections have been made, divided among the following counties: Boundary, 116; Bonner, 225; Kootenai, 293; Shoshone, 187; and Latah, 2. The following number of shipments were needed to be located in each case: Kootenai, 80; Boundary, 8; Bonner, 11; and Shoshone, 17. This makes a total of 76 unlocated cards, which, added to the list of inspected ones, brings the total to 897 cards accounted for in Idaho.

In Boundary County inspections were made in 11 towns or villages, more than one-half being made in Bonner's Ferry, and vicinity; in Bonner County in 30 localities, the number in each place being nearly equal; in Kootenai County in 32 localities, a little more than one-third of the inspections being made in Coeur d'Alene and vicinity; in

Shoshone in 11 towns or villages, one-fourth being confined to the City of Kellogg; and in Latah County inspections were made in Moscow only. This latter county is still incomplete, but these few inspections were made as they included shipments of Eastern white pine.

II. Spokane and Pend Oreille Counties, Washington.

Field Assistant Norman W. Scherer and one of the writers, George A. Root, made inspections in Pend Oreille and Spokane Counties, respectively. The number of inspections for this district is 178, divided as follows: Pend Oreille County, 128, and Spokane County, 50. In Pend Oreille one shipment was unable to be located, and in Spokane, 11. This total of 12, added to the above total of 128, brings the total number of cards accounted for up to 139.

In Pend Oreille County inspections were made in 16 towns, about one-third being made in New Port. In Spokane County inspections were made in 7 towns, 90% being made in the vicinity of Spokane. Pend Oreille County is completed, but a considerable amount of work still remains to be done in Spokane County. These have included, however, all known pine shipments.

inspections in 11 towns or villages, one-fourth being confined to the city or village; and in Lewis county inspections were made in Moscow only. This latter county is still incomplete, but those few inspections were made as they involved slip-ments of Western white pine.

II. Idaho and Fend Orville Districts.

Washington.

Field Assistant Norman A. Lennox and one of the writers, George A. Root, made inspections in Fend Orville and Spokane counties, respectively. The number of inspections for this district is 179, divided as follows: Fend Orville county, 147, and Spokane county, 32. In Fend Orville one shipment was found to be infected, and in Spokane, 11. This total of 12, added to the above total of 147, brings the total number of cards accounted for up to 159.

In Fend Orville County inspections were made in 16 towns, about one-third being made in Ione town. In Spokane County inspections were made in 7 towns, 30% being made in the vicinity of Spokane. Fend Orville County is completed, but a considerable amount of work still remains to be done in Spokane County. These have included, however, all known pine shipments.

RESUME OF WORK IN SUBDISTRICT III.

Field Assistant Ferdinand Wolpert began inspecting in Wyoming on June 18, 1918. The work progressed rapidly until Mr. Wolpert, having been called to the colors, left for Camp Dodge, Iowa, on July 22. Dr. James R. Weir, while in Wyoming, later in the summer, did some further inspection of nursery shipments. A total of 184 inspections were made in Wyoming. These are divided among the counties as follows: Sheridan, 53; Park, 94; Weston, 8; Albany, 3; Crook, 6; Fremont, 12; Carbon, 6; Big Horn, 1; and Niobrara, I. The following number of shipments were unable to be located; 5 in Sheridan; 1 in Fremont, and 1 in Big Horn, making a total of 7. The number of cards accounted for in Wyoming total 191.

In Sheridan County inspections were made in 2 towns, 90% being in Sheridan and vicinity; in Park inspections were made in 4 towns, 85% being in Powell; in Weston, 2 towns; in Carbon, 2; in Albany, 1; in Crook, 1; in Fremont, 1; in Big Horn, 1; and in Niobrara, 1. None of these counties are completed.

PROGRESS OF WORK IN WYOMING III.

Field assistant Hendricks finished bean inspecting in Wyoming on June 16, 1918. The work progressed rapidly until Mr. Colpert, having been called to the colors, left for Camp Dodge, Iowa, on July 22. Dr. James T. Hair, while in Wyoming, later in the summer, did some further inspection of nursery shipments. A total of 184 inspections were made in Wyoming. These are divided among the counties as follows: Sheridan, 58; Park, 54; Weston, 8; Albany, 3; Crook, 6; Fremont, 14; Carbon, 6; Big Horn, 1; and Niobrara, 1. The following number of shipments were usually to be located: 5 in Sheridan; 1 in Fremont, and 1 in Big Horn, making a total of 7. The number of cards accounted for in Wyoming total 191.

In Sheridan County inspections were made in 2 towns, 90% being in Sheridan and vicinity; in Park inspections were made in 4 towns, 88% being in Powell; in Weston, 2 towns; in Carbon, 2; in Albany, 1; in Crook, 1; in Fremont, 1; in Big Horn, 1; and in Niobrara, 1. None of these counties are completed.

SUMMARY

With a decrease in the force of men which would ordinarily be required to cover the entire district, considering the large number of cards on hand, it was deemed best to cover as much of the area as possible within the Western white pine belt. It was hoped that the work might be completed as far south as the Clearwater River, as this would include pretty much the white pine area. As it now stands, the territory is completed as far south as Benewah County. A little more than one-half of the white pine area has been covered, together with certain parts of Wyoming. (See blueprint and maps accompanying this report).

In Montana inspections were made over an area covering the entire portion of the Western Pine. As previously mentioned, 1, 937 inspection cards were traced in 83 towns in 6 counties. Very few of these represented white pine shipments.

In Idaho and Pend Oreille and Spokane Counties of Washington, inspections were made in the heart of the white pine area, and numbered 1, 036, covering 108 towns and localities in 7 counties. The largest number of white pine shipments were located in this subdistrict, the largest

SUMMARY

With a decrease in the force of men which would ordinarily be required to cover the entire district, considering the large number of cards on hand, it was decided best to cover as much of the area as possible within the Western White Pine belt. It was hoped that the work might be completed as far south as the Clearwater River, as this would include pretty much the white pine area. As it now stands, the territory is completed as far south as Bonneville County. A little more than one-half of the white pine area has been covered, together with certain parts of Wyoming. (See blueprint and maps accompanying this report).

In Montana inspection was made over an area covering the entire portion of the Western Pine. As previously mentioned, 1,327 inspection cards were filled in 27 towns in 6 counties. Very few of these represented white pine shipments.

In Idaho the four profile and summary counties of Washington, Lewis, Nez Perce and Idaho counties of the white pine area, had recorded 1,656, covering 102 towns and localities in 7 counties. The largest number of white pine shipments were located in this combination, the largest

individual shipments being at the University of Idaho at Moscow. These plantings originally comprised some 1,200 trees, but some of these have been shipped as orders to various places throughout Idaho and Washington.

In Wyoming inspections were made here and there in a general way. Inspections numbering 191 took place in 17 towns in 9 counties. Very few pine shipments were made into this state. Ribes and pine shipments traced in the entire district number 3, 164, divided among 208 towns and localities in 22 counties. The number of pines in the above inspected shipments is 1,585, and the approximate number of Ribes is 48, 650.

The Office at Missoula has in its files at the present time 8, 555 uninspected cards, distributed amont 601 localities, in Subdistrict 1. Not over 12 of these represent Eastern Pine shipments.

In Sub-district 2 there are 5, 192 cards distributed among 312 localities. Here is found the largest number of cards representing white pine shipments, which number 15.

In Subdistrict 3, 708 cards are still uninspected distributed amont 109 localities. Summing up the total for the entire district there are 14, 455 cards, distributed among 1,022 towns or localities. These cards represent a total

individual enjoyments being at the University of Tomsk at Moscow. These plantations originally comprised some 1,000 trees, but some of these have been merged to orchards in various places for general fruit and vegetables.

In Tomsk inspections were made here and there in a general way. Inspections embracing 151 such place in 17 towns in 3 counties. Very few plus enjoyments were made into milk stalls. Cities and plus enjoyments traced in the entire district number 3, 151, divided among 300 towns and localities in 22 counties. The number of plus in the above inspected enjoyments is 1,300, and the approximate number of cities is 42, etc.

The office at Tomsk was in its time at the present time 8,000 unimproved cattle, distributed among 301 localities, in districts 1. Out over 12 of these represent Masters Fine Arts.

In sub-district 2 there are 8, 120 cattle distributed among 411 localities. Here is some the largest number of cards representing white plus enjoyments, which number 12.

In district 3, 720 cattle are still unimproved distributed among 107 localities. Adding up the total for the entire district there are 14, 400 cattle, distributed among 1,020 towns or localities. These cattle represent a total

of approximately 581, 000 Ribes and 1,250 white pine.

At this point may be mentioned the fact that the area in which inspections have been made is apparently free from the rust, and while this does not conclusively prove that the entire district is free, it is hoped that such is the case. It should, however, relieve a certain amount of anxiety felt in regard to this Northwest section.

NOTES.

Conditions for the spreadyof the white pine blister rust are most favorable throughout the entire district. Wild Ribes of all varieties abound in the canyons, along brooks and roadsides. These were often inspected where found. Cultivated Ribes are distributed throughout the entire district. In Spokane County there are innumerable plantings, located in the orchard regions of the Spokane Valley. These plantings often consist of several hundred bushes, and from which a partial livelihood is gained from the sale of the fruit. There are perhaps more Ribes per square mile in this section than in any other in the entire district. The native white pine are quite a distance away from this locality. The land boom in and around Spokane several years ago was instru-

of approximately 581,000 tons and 1,450 white pine.

At this point it is mentioned the fact that the area in which inspections have been made is geographically free from the rust, and while this does not conclusively prove that the entire district is free, it is hoped that such is the case. It should, however, relieve a certain amount of anxiety felt in regard to this important section.

Conclusions.

Conditions for the preservation the white pine blister rust are most favorable throughout the entire district. Wild ribes of all varieties abound in the swamps, along brooks and roadsides. These were often transplanted about towns. Cultivated ribes are distributed throughout the entire district. In spotted areas where the favorable plantings, located in the crowded regions of the species (Pine), these plantings often consist of several hundred ribes, and from which a partial dissemination is gained from the main of the rust. There are perhaps more ribes per square mile in this section than in any other in the entire district. The native white pine are quite a distance away from this locality. The land boom in and around Spokane several years ago was instru-

mental in bringing about large sales of nursery stock, both for orchards and landscape plantings, including Eastern white pine. Several small plantings were noted in the grounds of some residences. These proved to be from Eastern nurseries, and cards for those shipments were lacking. Such conditions may be true in other places, and sharp watch should be kept for such plantings, especially in residential sections.

It is not surprising that many of the nursery shipments as listed on the cards could not be located, for the population of this district, especially in Idaho and portions of Montana, is more fluctuating than perhaps any other state in the Union. Many places were abandoned, with the stock gone, either having been eaten by cattle or died from neglect and drought. In the entire district there are 674 unlocated cards. As an illustration of conditions; the writer will cite the case as found in Polson in Flathead County, Montana. Of the 292 cards for that town, 69 were unable to be located; 85 had moved, and bushes nowhere to be seen; 60 were found to be dead, and 78 healthy. This is the largest percentage noted, but should not be applied to all sections, however.

The people as a whole, throughout the entire district, are ignorant of the disease and its devastating character. Educational campaigns should be pushed with vigor, through the use of posters, exhibition of diseased specimens,

needed in bringing about large sales of variety stock, both for orchards and landscape plantings, including Eastern white pine. Several small plantings were made in the grounds of some residences. These proved to be from Western nurseries, and cards for these subjects were lacking. Such conditions may be true in other places, and keep watch should be kept for such plantings, especially in residential settings.

It is not surprising that many of the nursery shipments as listed on the cards could not be located, for the population of this district, especially in Yakima and portions of Benton, is more fluctuating than perhaps any other state in the Union. Many places were abandoned, when the stock gone, either having been eaten by cattle or taken upon neglect and drought. In the entire district there are 274 allocated cards. As an illustration of conditions: the writer will cite the case as found in Yakima in Yakima County, Washington. Of the 252 cards for that town, 63 were unable to be located; 63 had moved, and names unknown to be seen; 63 were found to be dead, and 76 healthy. This is the largest percentage noted, but should not be applied to all sections, however.

The people as a whole, throughout the entire district, are interest of the nursery and its representative character. Educational conditions should be pushed with vigor, through the use of posters, exhibition of diseased specimens,

and the press. The various Fairs which are held each year throughout the Northwest would be ideal places for such exhibitions, together with the distribution of literature. Though the disease has not appeared in the West, as far as is known, the matter of giving it wide publicity should receive as much attention here as in some of the Eastern states where it is strongly entrenched.

The horticultural inspectors, together with their deputies, should make themselves fully acquainted with the disease in all its forms. They should be required to make more thorough examinations and inspections of nursery stock, especially that transmitted through the mails by parcel post. Many such shipments are never inspected, owing to the absence in some cases of a deputy inspector in that particular region. The personnel of the deputy inspectors should be raised, as the present writer is informed that express agents very often act as inspectors. Field Assistant Norman W. Scherer has incorporated in his report for Idaho the following, which might be applicable to the other subdistricts: "*** 2. That the County Agricultural Agents be deputized as Deputy Nursery Inspectors. This would mean educated and active men as inspectors, well distributed over the state. At present there are 15 Deputy Inspectors and 40 County Agricultural Agents. The money used at present for the Deputy Inspectors could profitably be used with County Agent funds. With this suggestion in operation all nursery

and the press. The various rains which are held each year throughout the Northwest would be ideal places for such exhibitions, together with the distribution of literature. Though the disease has not appeared in the West, so far as is known, the matter of giving it wide publicity should receive as much attention here as in some of the eastern states where it is strongly entrenched.

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stock could be inspected free gratis to the parties consigned,-- doing entirely away with the present charge system for inspection, which is not relished by the receiving public.".

The men in the Forest Service should become more fully acquainted with the rust. In an interview with the Acting District Forester, Mr. Rutledge, he stated that the men are little acquainted with the disease. He offers his co-operation in this work, in any way that would be of advantage to the Plant Bureau. He further stated that Forest rangers, covering a great deal of ground as they do, might be of some service.

About 85% of the inspections made during this field season were from nurseries located in Oregon and Washington. The remaining uninspected cards on file represent shipments from Montana and Middle Western nurseries. Eastern nurseries, as well as all others not already asked, occurring on the Government blacklist, will be requested to send in records of sales of their stock into this district. However, it has been suggested that it might be more advantageous to have the Government men go direct to these various nurseries and obtain the required data. The time spent by the nurseries themselves in compiling lists

stock could be imported free duties to the parties concerned,-- doing entirely away with the present cumbrous system for inspection, which is not relished by the receiving public.".

The men in the forest service should become more fully acquainted with the trade. In an interview with the acting district forester, Mr. Lillehage, he stated that the men are little acquainted with the disease. He offers his co-operation in this work, in any way that would be of advantage to the plant bureau. Mr Fuller stated that forest rangers, covering a great deal of ground as they do, might be of some service.

About 85% of the inspections made during this field season were from nurseries located in Oregon and Washington. The remaining nine-tenths came on file repre-sent shipments from Montana and Middle Eastern nurseries. Eastern nurseries, as well as all others not already noted, according on the Government blacklist, will be requested to send in records of sales of their stock into this district. However, it has been suggested that it might be more advantageous to have the Government men go direct to these various nurseries and obtain the required data. The time spent by the nurseries themselves in compiling lists

of sales for this work has been considerable, and a few have begrudged such time, though as a whole the co-operation has been very good.

Considering the small force of field men, which would not perhaps average more than two for the entire season, and the territory over which they were obliged to travel, it is the opinion of the writers that considerable work was accomplished. If the blister rust inspection is to proceed in the same way during the 1919 season, with the hope of inspecting all cards now on hand, a large force of experienced men will be required. There seems to be no other way than to continue along such lines, in order to prevent the blister rust from becoming seated in the Northwest.

of calas for this worthless town considerably, and a few have begun to build there, though as a whole the co-operation has been very poor.

Concerning the small area of field work, which would not perhaps overlap more than the entire season, and the territory over which they were obliged to travel, it is not opinion of the writers that considerable work was accomplished. In the winter and inspection is to proceed in the same way as this, the life season, with the hope of inspecting all cards now in hand, a large force of experienced men will be required. There seems to be no other way than to continue such lines, in order to prevent the pilfering that has already occurred in the forthcoming.